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Coursera - Creating an AWS EC2 Autoscaling Group using Load Balancer

Generated on December 20, 2023

Summary

Notes

Screenshots

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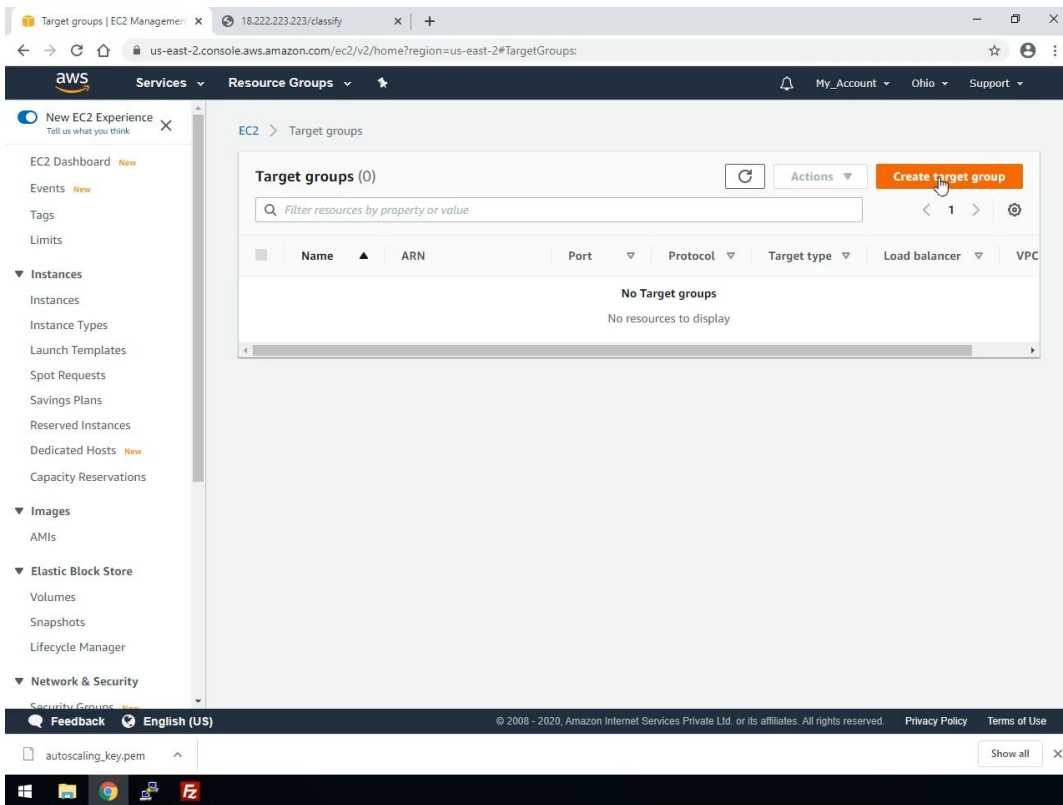
Task 4:

Creating A Target Group

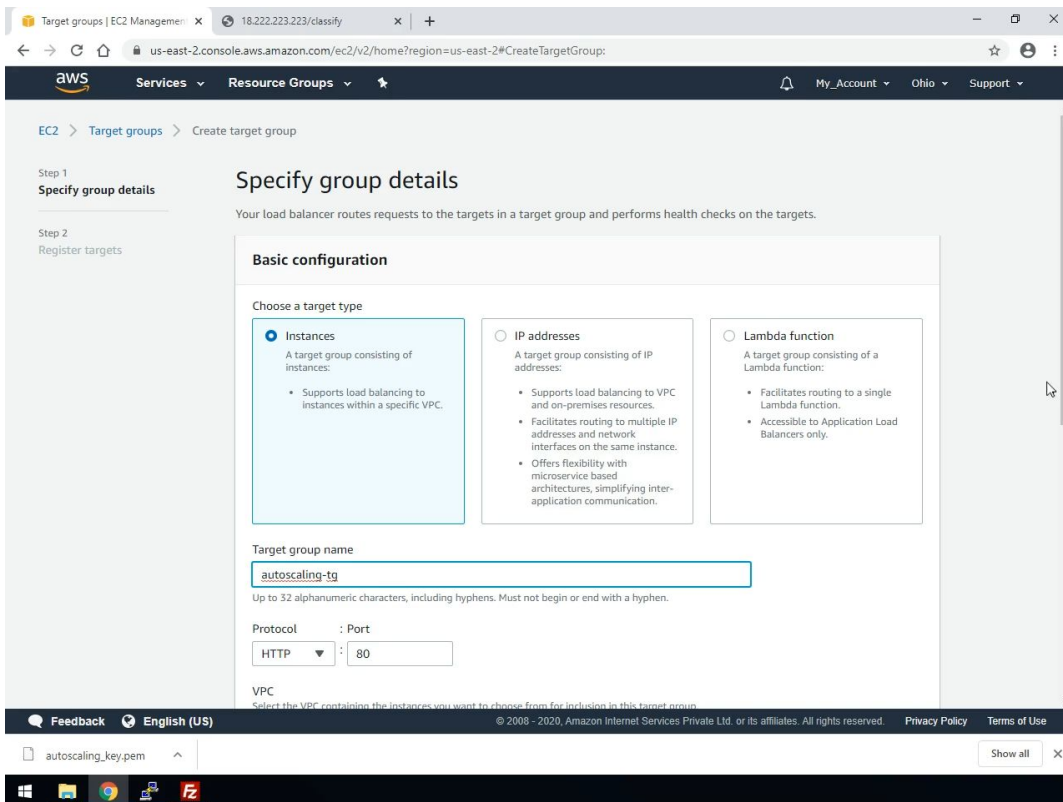
0:02

The screenshot displays the AWS Management Console interface. At the top, a green banner confirms the successful creation of a launch configuration named 'autoscaling-lc'. Below this, the 'Launch configurations' page is shown, featuring a table with one entry: 'autoscaling-lc' using the AMI 'ami-0e8a219e99...' and the 't2.micro' instance type. The left sidebar contains the navigation menu, with 'Launch Configurations' highlighted under the 'AUTO SCALING' section. The bottom of the console shows the footer with copyright information and links to Privacy Policy and Terms of Use.

0:27



0:33



1:17

Health Check:

the load balancer check periodically each ec2-instance behind it in the auto scaling group

▶ 1:42

if they do not return correct status, which is supposed to be 200 status code for Okay

then the load balancer will launch a new ec2-instance to replace it

▶ 1:56

Target groups | EC2 Management | 18.222.223.223/classify

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#CreateTargetGroup:

aws Services Resource Groups My Account Ohio Support

architectures, simplifying inter-application communication.

Target group name
autoscaling-tg
Up to 32 alphanumeric characters, including hyphens. Must not begin or end with a hyphen.

Protocol : Port
HTTP : 80

VPC
Select the VPC containing the instances you want to choose from for inclusion in this target group.
vpc-ca5dff1a1
IPv4: 172.31.0.0/16

Health checks
The associated load balancer periodically sends requests, per the settings below, to the registered targets to test their status.

Health check protocol
HTTP

Health check path
Use the default path of "/" to ping the root, or specify a custom path if preferred.
/classify
Up to 1024 characters allowed.

Advanced health check settings

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autoscaling_key.pem Show all

▶ 2:27

healthy threshold:

which defines the number of consecutive health-check Success is Required

before the target is considered..

if it receives five correct requests in a row, it is considered as

healthy threshold

▶ 2:55

Target groups | EC2 Management | 18.222.223.223/classify

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#CreateTargetGroup:

aws Services Resource Groups

Health check path
Use the default path of "/" to ping the root, or specify a custom path if preferred.
/classify
Up to 1024 characters allowed.

▼ Advanced health check settings Restore defaults

Port
The port the load balancer uses when performing health checks on targets. The default is the port on which each target receives traffic from the load balancer, but you can specify a different port.
☒ Traffic port
☐ Override

Healthy threshold
The number of consecutive health checks successes required before considering an unhealthy target healthy.
5
2-10

Unhealthy threshold
The number of consecutive health check failures required before considering a target unhealthy.
2
2-10

Timeout
The amount of time, in seconds, during which no response means a failed health check.
5 seconds
2-120

Interval
The approximate amount of time between health checks of an individual target
30 seconds
5-300

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autoscaling_key.pem Show all X

▶ 2:59

Unhealthy-Threshold:

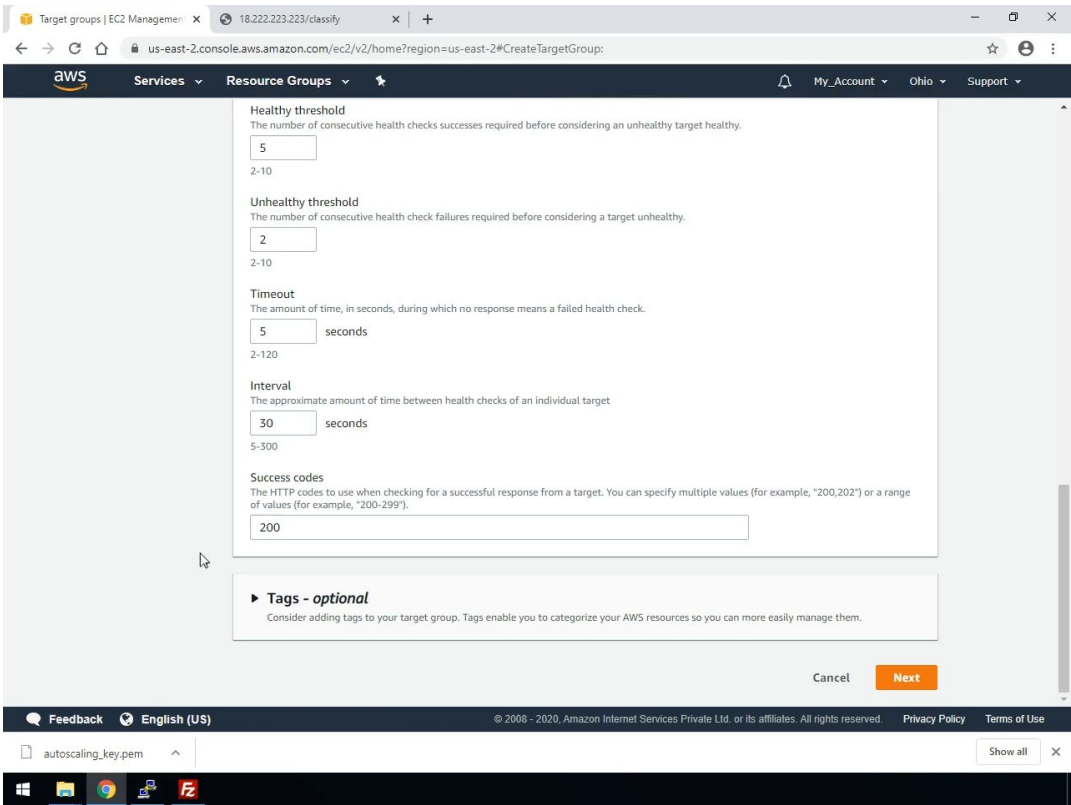
whereas if two consecutive request do not give status code 200 it is considered as Unhealthy.

▶ 3:15

Timeout:

if there is no response within five minutes, it's a bad request

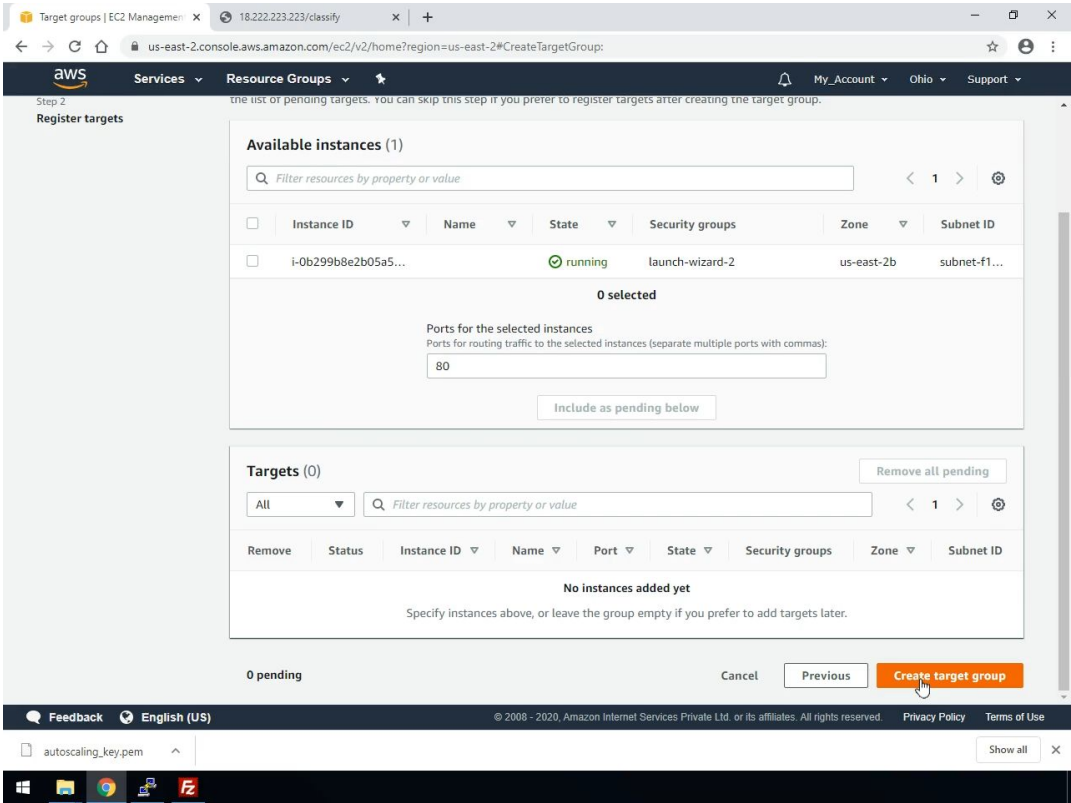
▶ 3:28



▶ 3:42

click next

▶ 4:00



▶ 4:42

we are not adding any targets for now

▶ 4:42

click on create target group

▶ 4:45

The screenshot displays the AWS Management Console interface for 'Target groups'. A green notification banner at the top indicates 'Successfully created target group: autoscaling-tg'. The main content area shows a table with one entry: 'autoscaling-tg'. The table columns include Name, ARN, Port, Protocol, Target type, Load balancer, and VPC. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, Elastic Block Store, and Network & Security. The bottom of the console shows a footer with 'Feedback', 'English (US)', and copyright information. A Windows taskbar is visible at the very bottom of the image.

Name	ARN	Port	Protocol	Target type	Load balancer	VPC
autoscaling-tg	arn:aws:elasticload...	80	HTTP	Instance	-	vpc-

▶ 4:47